Operation Change Request

OCR: hopsall000019
MOP: ISS:05A1:Flight

International Space Station
Payload Operations Integration Center
Marshall Space Flight Center
Huntsville, Alabama USA

GENERAL INFORMATION

Title: Modify HRF Rack Activation activity resources
Priority: Normal
Special Processing:
On Hold: No

Originator: hopsall0
Type: Standard
Effectivity: Permanent for Future MOPs
State: Implemented

Due Event: Prior to SECOND HRF Rack Activation
Earliest Date: None
Desired Date: None
Latest Date: None

Description Of Change
Minor updates to energy and data resources used in the HRF RACK ACT activity.

Reason For Change
Energy resource update (decrease) is to catch iURC up to final test values. Data resource update is to reflect HRF's request to have the Medium Rate Data Link enabled during Rack operations, at least through the 5A.1 stage. This is highly desirable, but not critical, to Rack operations.

RESOURCE IMPACTS

Activity/Sequence
Requirements in iVRC: Yes
Activity Name: HRF RACK ACT
Sequence Name: None
Activity Group: None

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Sequence Group: None
User Group: None
Crew Time: None

Manual Procedures
Title: None
Number: None
Filename: None
User Validation: No
POIC Verification (Standards): No
POIC Verification (Non-Interference): No

Commanding
Single Commands: No
Groups: No
Critical: No
Hazardous: No
OIU: No

Downlink Data
Low Rate: No
Medium Rate: Yes
High Rate: No
Video Rate: No

File Uplink Request (to PLMDM)
Payload Data Set: No
Timeline Automated Procedure: No
Time Needed On-Board: None
File Size: -1 bytes
File Name: None
CVT Table: No
RIC Table: No

SUPPORTING ATTACHMENTS

Supporting Attachment #1
Name: Rack Act.doc
Size: 98816 bytes
Type: Anomaly Log
User ID: hopsall0
Notes: None

Activity Name	Procedure Name
HRF RACK ACT	MGUEHRFRACKN001

Duration	**Execution Note**
Minimum 00:30	
Preferred 00:30	**ISS Conditions**

Crew

	All of	X	SC1
X	One of	X	SC2
		X	SC3
sub-interval only		-	

ISS Conditions

		before	during	after	start		end
	Voice					-	
	Cmd w/ D/L					-	
	Orbital Day					-	
	SAA					-	

Thermal

Air Cooled

Water Cooled

	Internal Air (AAA)		W dissipated	X	MTL	155	dissipated W
X	Cabin Air	60	W dissipated		LTL	60	Flow Rate (kg/hr)

| | Sub-interval only | | - | |

Data

Rate 2.0

	High Rate (Mbps)		Realtime
X	Med Rate (Mbps)		Bit stream	X	packet
	Low Rate (Kbps)		Destination	*location*

	Destination	*location*
X	Ground APID	897
	Payload	

sub-interval only | | - | |

Video

Rate [ ] Mbps [ ] Realtime

Destination location

	Ground APID	
	Payload	
	Monitor	
	ISS Video Recorder	

sub-interval only | | - | |

Other Resources

		Start		end
	USL Camcorder		-	
	35mm Camera		-	
	Electronic Still Camera		-	
	Express Laptop		-	
	Vacuum Resource		-	
	Vacuum Waste		-	

Power

Rate 215 W [ ] UOP # [ ]

sub-interval only | | - | |

HRF Resources

X	HRF PC		-	
	HRF Workstation		-	
	HRF GASMAP		-	

NOTES:

The first part of this procedure includes manual crew RPC close and smoke detection enablement. Following a 5-minute wait for the RIC to warm-up (included as a note to the crew in the procedure), the crew continues with nominal HRF Rack Activation. The commanding performed for first-time activation in conjunction with HRF RACK C/O is not required in this activity.

MRDL enablement is not required for this activity, but is highly desired by the HRF ground team, at least for the 5A.1 stage of operations or anytime a new configuration of the Rack (i.e. Workstation, Ultrasound, etc.) is used. Actual data rate may be as low as 700kbps.

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REVIEWERS

Type	User ID	Response	Date
POIC	bandall0	Concur	2001 078:18:58:43
POIC	cpo1all0	Concur	2001 078:18:43:33
POIC	dmc1all0	Concur	2001 078:07:54:48
POIC	lis1all0	Concur	2001 078:06:47:47
POIC	octmall0	Concur	2001 078:06:27:59
POIC	phanall0	Concur	2001 078:02:16:24
POIC	podfall0	Concur	2001 078:15:05:50
POIC	ppm1all0	Concur	2001 080:17:35:12
POIC	ppseall0	Concur	2001 080:17:51:07
POIC	pro1all0	Concur	2001 078:05:21:53
POIC	pse1all0	Concur	2001 078:17:31:29
POIC	pycmall0	Concur	2001 078:05:57:02
POIC	ricoall0	Concur	2001 078:15:15:46
POIC	scm1all0	Concur	2001 080:05:58:27
POIC	sftyall0	Concur	2001 078:15:38:51
POIC	stowall0	Concur	2001 078:13:51:40
POIC	tco1all0	Concur	2001 078:02:28:26
POIC	tmm1all0	Concur	2001 080:17:50:53
POIC	wisdall0	Concur	2001 078:16:19:09

REVIEWER ATTACHMENTS

None

ACTION LIST

Sequence #1
User ID: ppm1all0
Due Date: 2001 087:00:00:00
Implemented: Yes
Description: Update iURC requirements

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__CM LOG__

Task: Update iURC requirements
Action: Implement
User ID: ppm1all0
State: Final Approval
CM Date: 2001 086:21:04:25
Notes: PPM: The CPS database has been updated.

Task: Provide POIC POD Lead Approval
Action: Final Approval
User ID: pod1all0
State: POIC Review
CM Date: 2001 080:21:52:32
Notes:

Task: Perform POIC Member Review
Action: Concur
User ID: ppseall0
State: POIC Review
CM Date: 2001 080:17:51:07
Notes:

Task: Perform POIC Member Review
Action: Concur
User ID: tmm1all0
State: POIC Review
CM Date: 2001 080:17:50:53
Notes:

Task: Perform POIC Member Review
Action: Concur
User ID: ppm1all0
State: POIC Review
CM Date: 2001 080:17:35:12
Notes: PPM: Based on conversations with HRF, the MTL flow rate required should be 28
kg/hr instead of 60 kg/hr. We will also use this modified HRF Rack ACT activity for
HRF Rack Checkout with the following modification: Perform Steps 1.3 to 2.20 only for
HRF Rack Checkout.

Task: Perform POIC Member Review
Action: Concur
User ID: scm1all0
State: POIC Review
CM Date: 2001 080:05:58:27
Notes: Hopsall000026 contains the changes found in hopsall000019.

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Task: Perform POIC Member Review
Action: Concur
User ID: bandall0
State: POIC Review
CM Date: 2001 078:18:58:43
Notes:

Task: Perform POIC Member Review
Action: Concur
User ID: cpo1all0
State: POIC Review
CM Date: 2001 078:18:43:33
Notes: Attachment requests Medium Rate (2.0Mbps) with Ground APID 897. Our records dated 02/08/01, by Lisa Koteras (PSCP), show APID 896 equals HRF MRDL and APID 897 equals HRF HRDL. Revised, I talked with Erin Steele of HRF, the selected APID is correct and the OCR is correct.

Task: Perform POIC Member Review
Action: Concur
User ID: pse1all0
State: POIC Review
CM Date: 2001 078:17:31:29
Notes:

Task: Perform POIC Member Review
Action: Concur
User ID: wisdall0
State: POIC Review
CM Date: 2001 078:16:19:09
Notes:

Task: Perform POIC Member Review
Action: Concur
User ID: sftyall0
State: POIC Review
CM Date: 2001 078:15:38:51
Notes:

Task: Perform POIC Member Review
Action: Concur
User ID: ricoall0
State: POIC Review
CM Date: 2001 078:15:15:46
Notes:

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Task: Perform POIC Member Review
Action: Concur
User ID: podfall0
State: POIC Review
CM Date: 2001 078:15:05:50
Notes:

Task: Perform POIC Member Review
Action: Concur
User ID: stowall0
State: POIC Review
CM Date: 2001 078:13:51:40
Notes:

Task: Perform POIC Member Review
Action: Concur
User ID: dmc1all0
State: POIC Review
CM Date: 2001 078:07:54:48
Notes: There should be no problem accomadating HRF's request since HRF is the ONLY
user on the LAN. The DMC will enable HRF's PEHG port after PEHG activation.
Nominal Operations will occur on PEHG 2.

Task: Perform POIC Member Review
Action: Concur
User ID: lis1all0
State: POIC Review
CM Date: 2001 078:06:47:47
Notes: reviewed by BJM

Task: Perform POIC Member Review
Action: Concur
User ID: octmall0
State: POIC Review
CM Date: 2001 078:06:28:00
Notes: PAYCOM has researched this and included a note in her evaluation.

Task: Perform POIC Member Review
Action: Concur
User ID: pycmall0
State: POIC Review
CM Date: 2001 078:05:57:02
Notes: The note referred to in this OCR is in HRF Rack Activation
(MGUEHRFRACKN001) in step 1.1.1.

Task: Perform POIC Member Review

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Action: Concur
User ID: pro1all0
State: POIC Review
CM Date: 2001 078:05:21:54
Notes:

Task: Perform POIC Member Review
Action: Concur
User ID: tco1all0
State: POIC Review
CM Date: 2001 078:02:28:26
Notes:

Task: Perform POIC Member Review
Action: Concur
User ID: phanall0
State: POIC Review
CM Date: 2001 078:02:16:24
Notes:

Task: Perform POIC POD Lead Screening
Action: Release For Review
User ID: pod1all0
State: Submit to POIC
CM Date: 2001 078:02:09:43
Notes: Changes to Energy Resource (thermal) decreased and notation for Med Rate Data
as highly desired for rack ops thru 5A.1, at least. Affects models. In the Notes
accompanying the table attachment, there is also an allusion to a note added to a
procedure telling the crew to wait 5 minutes. OC needs to check that this note is
consistent with current procedures.

Task: Perform Facility Lead Screening
Action: Submit To POIC
User ID: hopsall0
State: Submit to Facility Lead
CM Date: 2001 077:22:10:58
Notes:

Task: Develop OCR
Action: Submit
User ID: hopsall0
State: Development
CM Date: 2001 075:20:48:23
Notes: